

(3 Hours)

[Total Marks : 60]

- N.B. :** (1) Question No. 1 is **compulsory**.
(2) Attempt any **four** questions from the remaining **six** questions.
(3) Assume **suitable data** wherever **necessary**.

1. (a) Define Metrics. Describe process and project metrics. 5
(b) What is Agility ? Define the principal to achieve agility. 5
(c) What is functional and non-functional requirement of SRS ? 5
(d) What are the advantages of test driven development ? 5
2. (a) Explain incremental process model with suitable example. 10
(b) Explain change control in detail along with software configuration items and baseline. 10
3. (a) Explain different steps in requirement engineering. 10
(b) Discuss and compare coupling and cohesion in brief. 10
4. (a) What test is carried during verification and validation ? Explain with example. 10
(b) List and explain the fundamental concepts for software design. 10
5. (a) Explain different types of maintenance with suitable example. 10
(b) What is quality Assurance ? What are different parameters of Quality ? 10
6. (a) What are the risks associated with software projects ? How do project managers manage such risks ? 10
(b) List down and explain the activities of scheduling and tracking for Library management system. 10
7. Write a short notes on any **two** :— 20
 - (a) Re-engineering.
 - (b) Security Engineering.
 - (c) White Box and Black Box Testing.
 - (d) CMM and Key Process Areas.

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